

Fig. 1

208220-1-022802

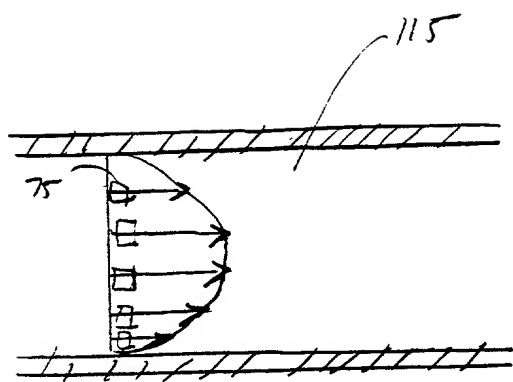


Fig. 2

208220-1648001

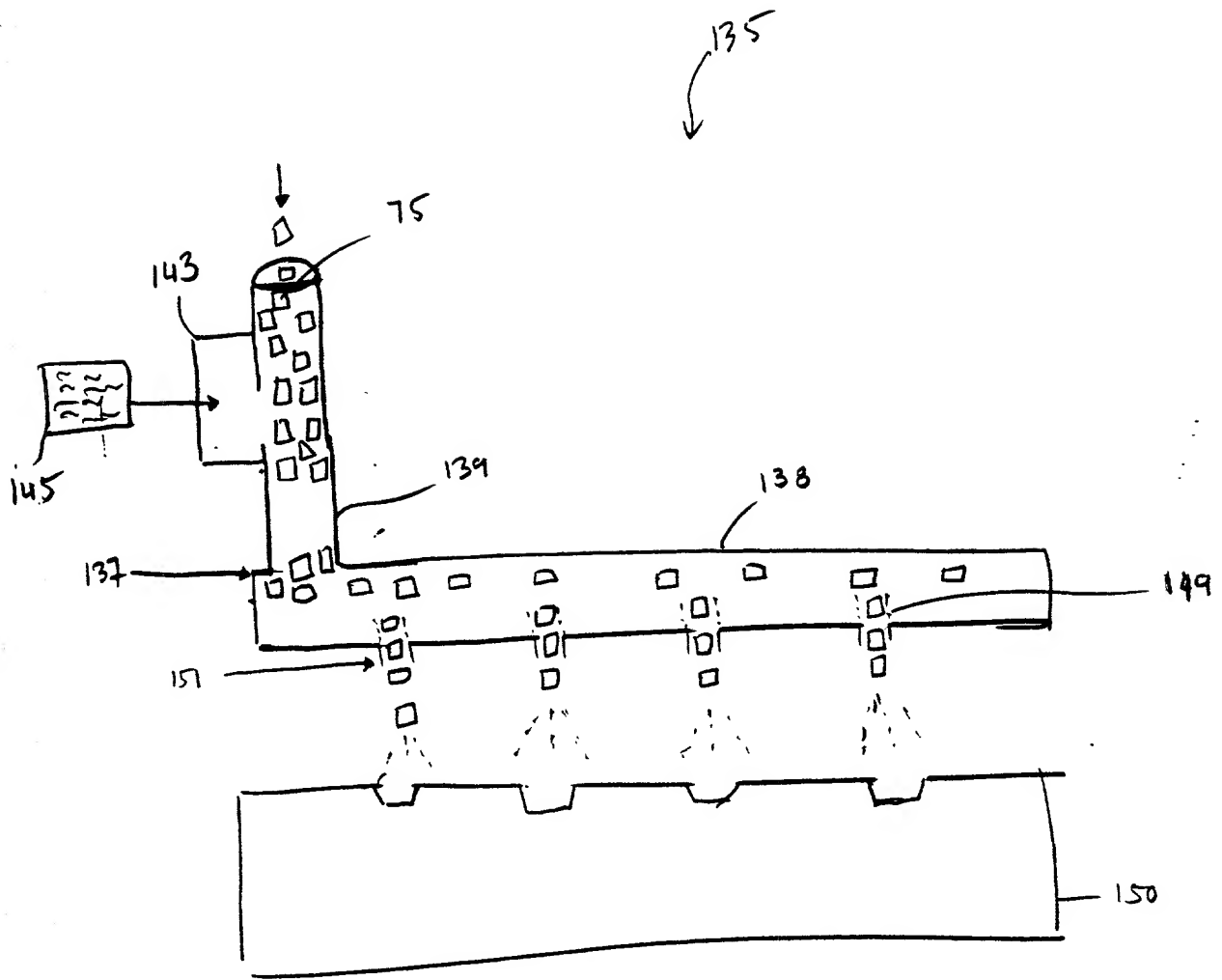


Fig. 3

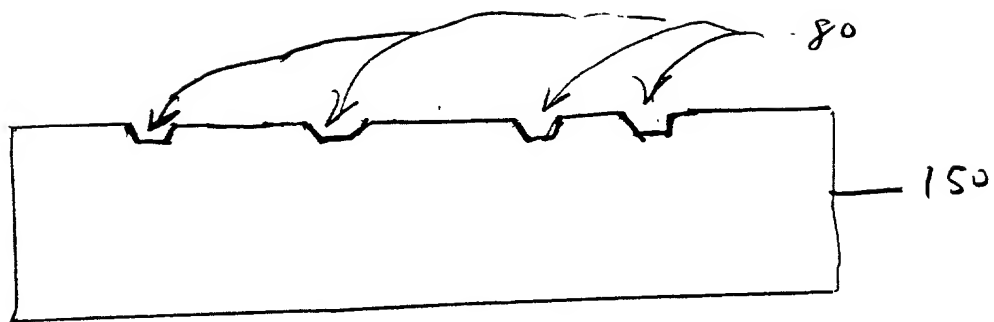


Figure 4

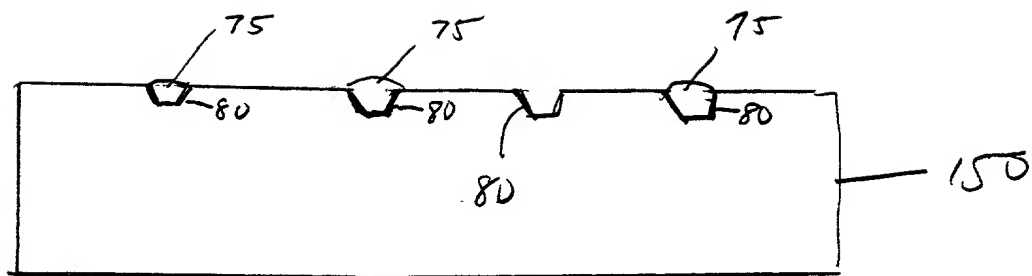


Fig. 5

209220-164900T

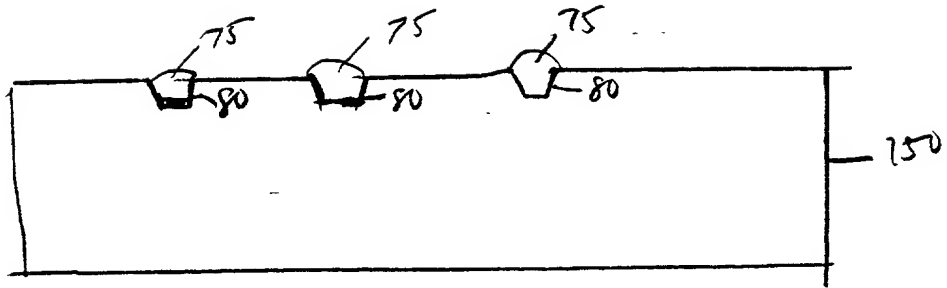


Fig. 6

208220 T64941.022802

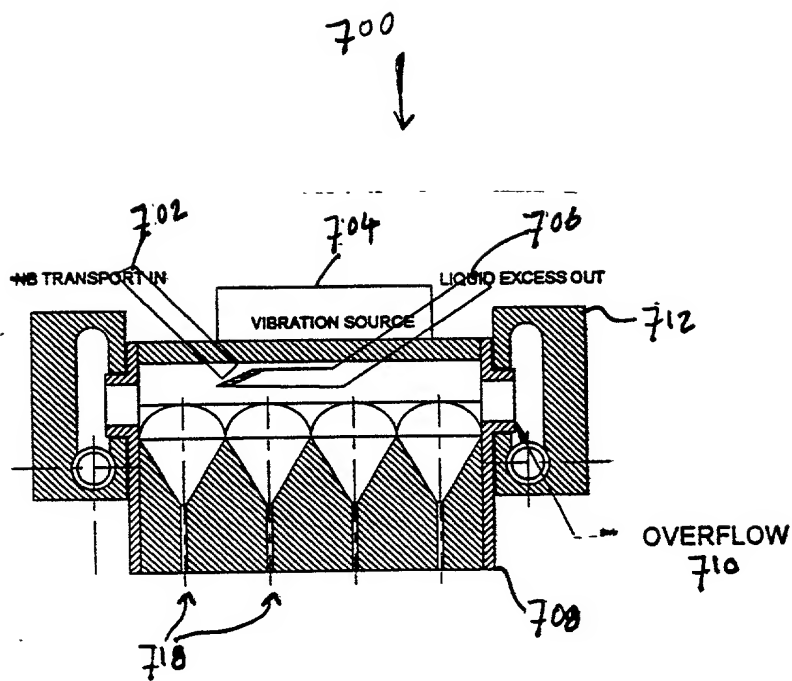


FIG. 7A

208220-164800T

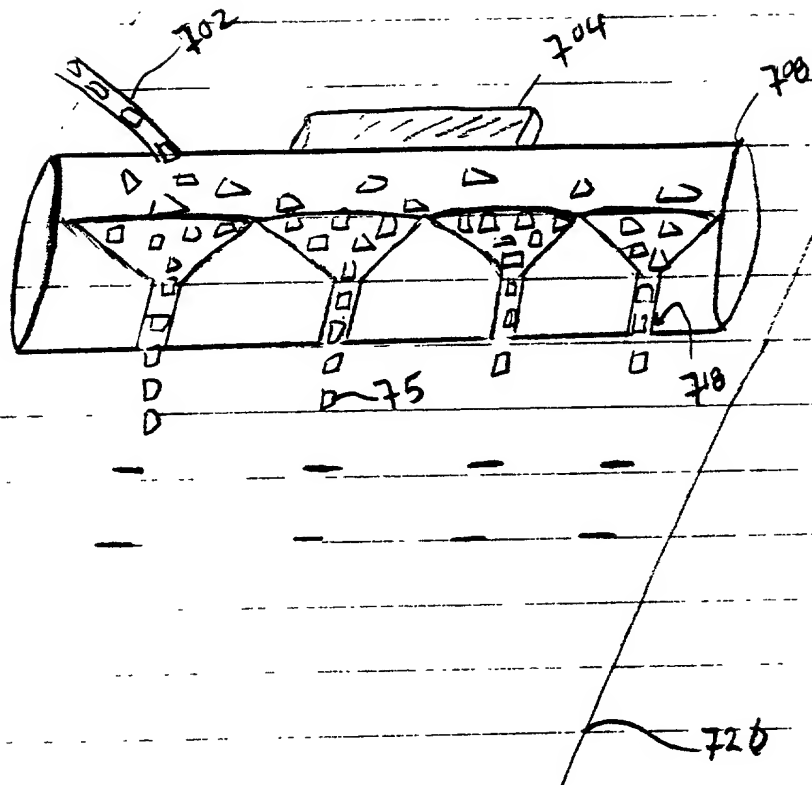


FIG. 7B



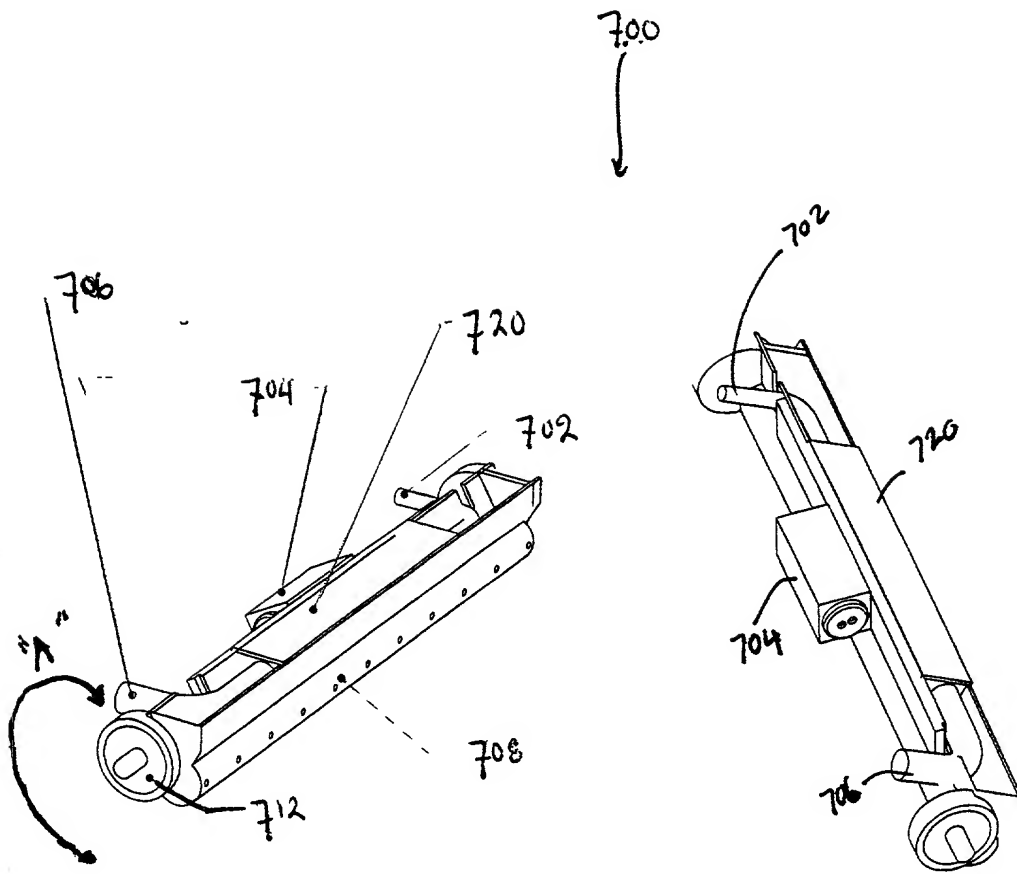


FIG. 7C

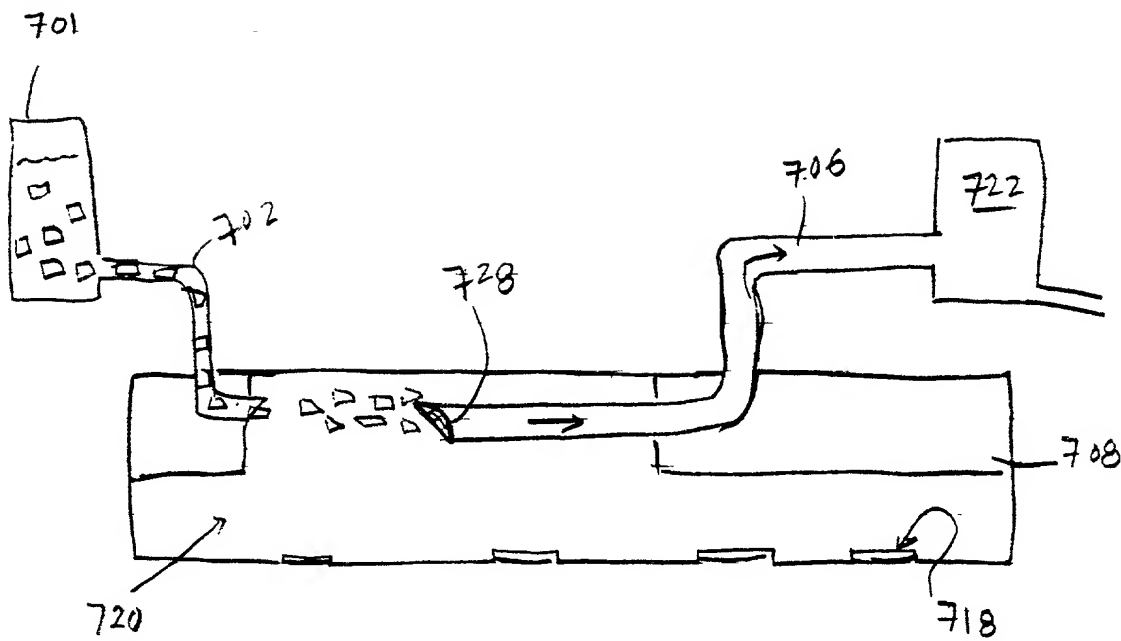
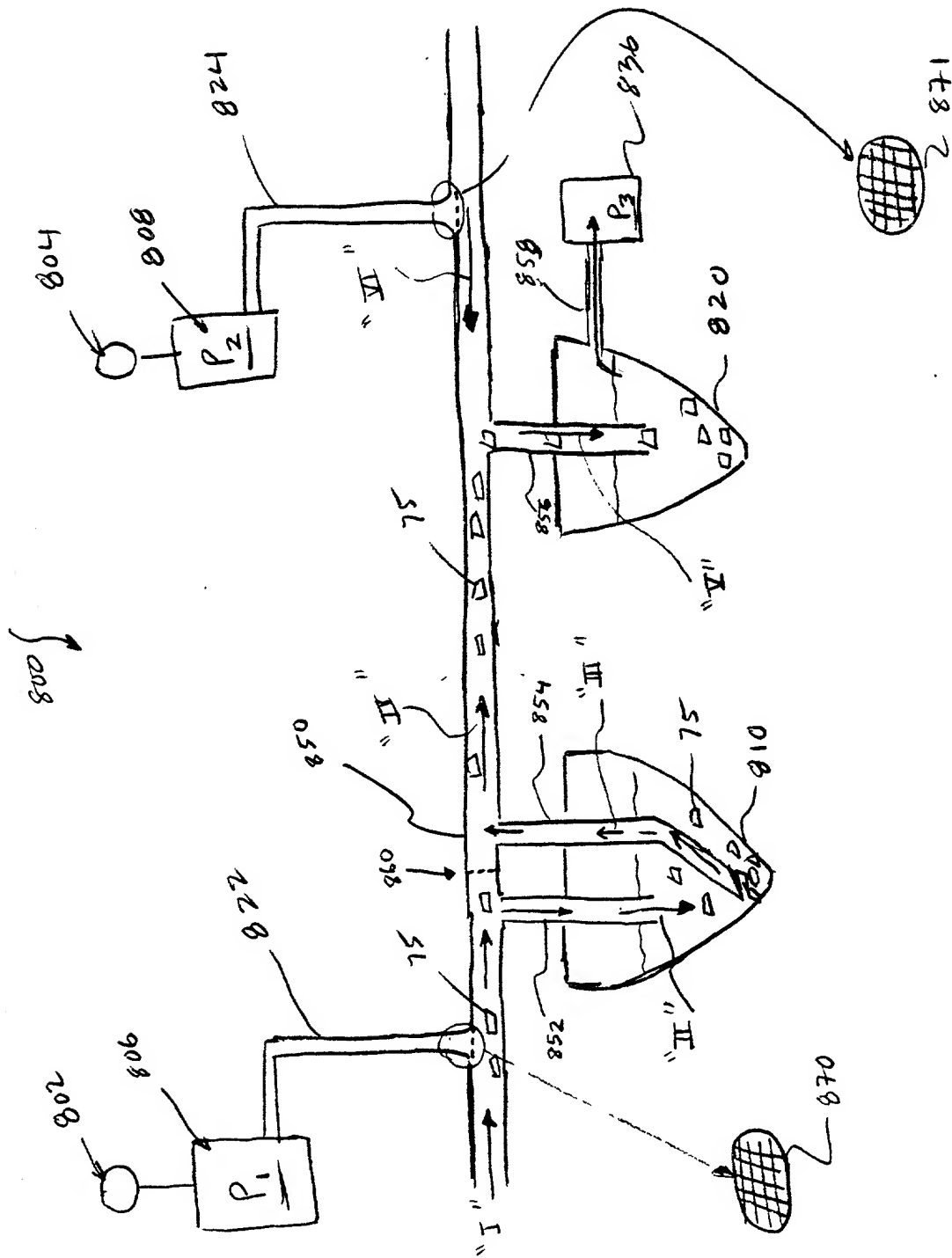


FIG. 7D

Fig. 8



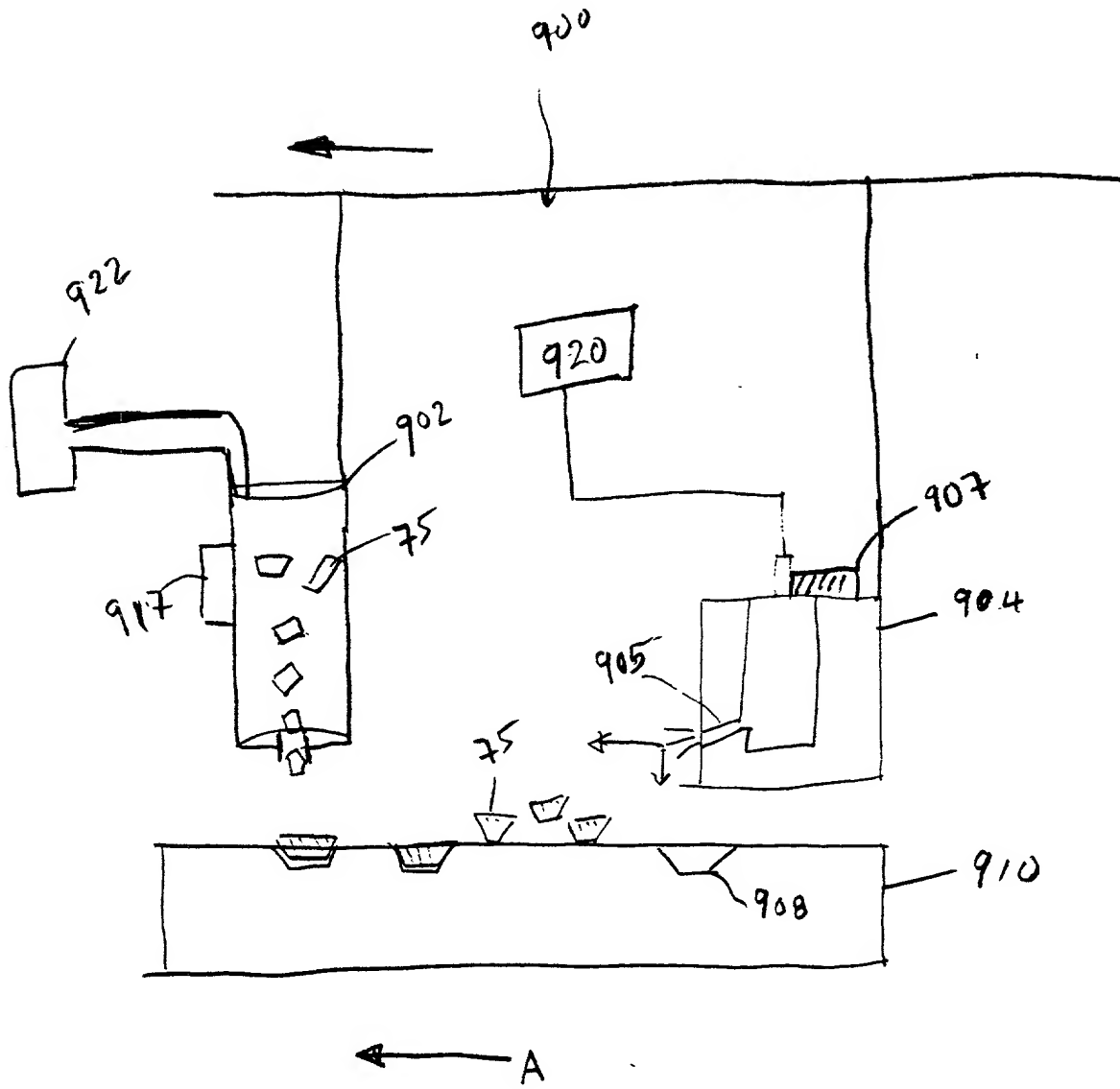


Fig. 9

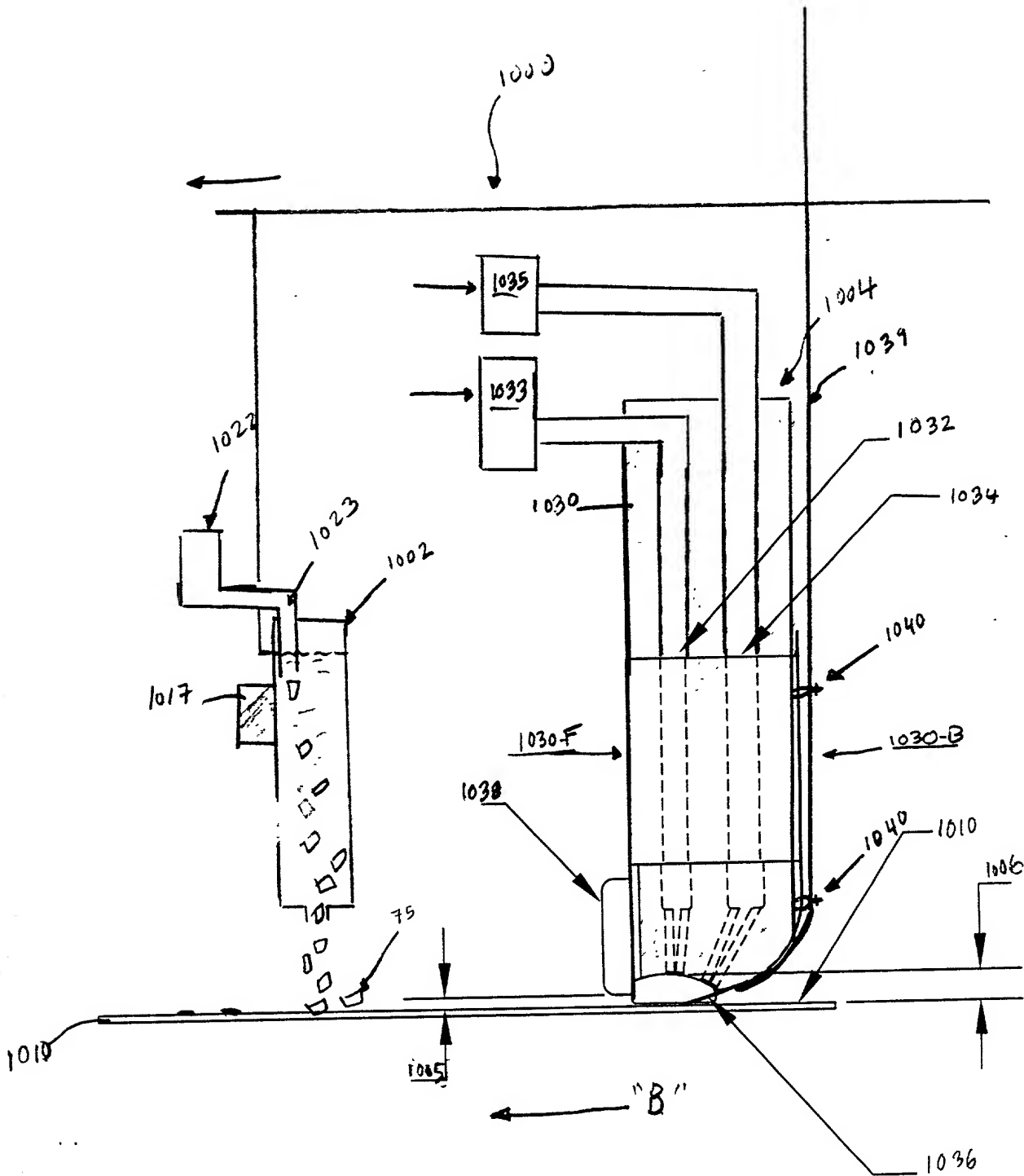


FIG. 10

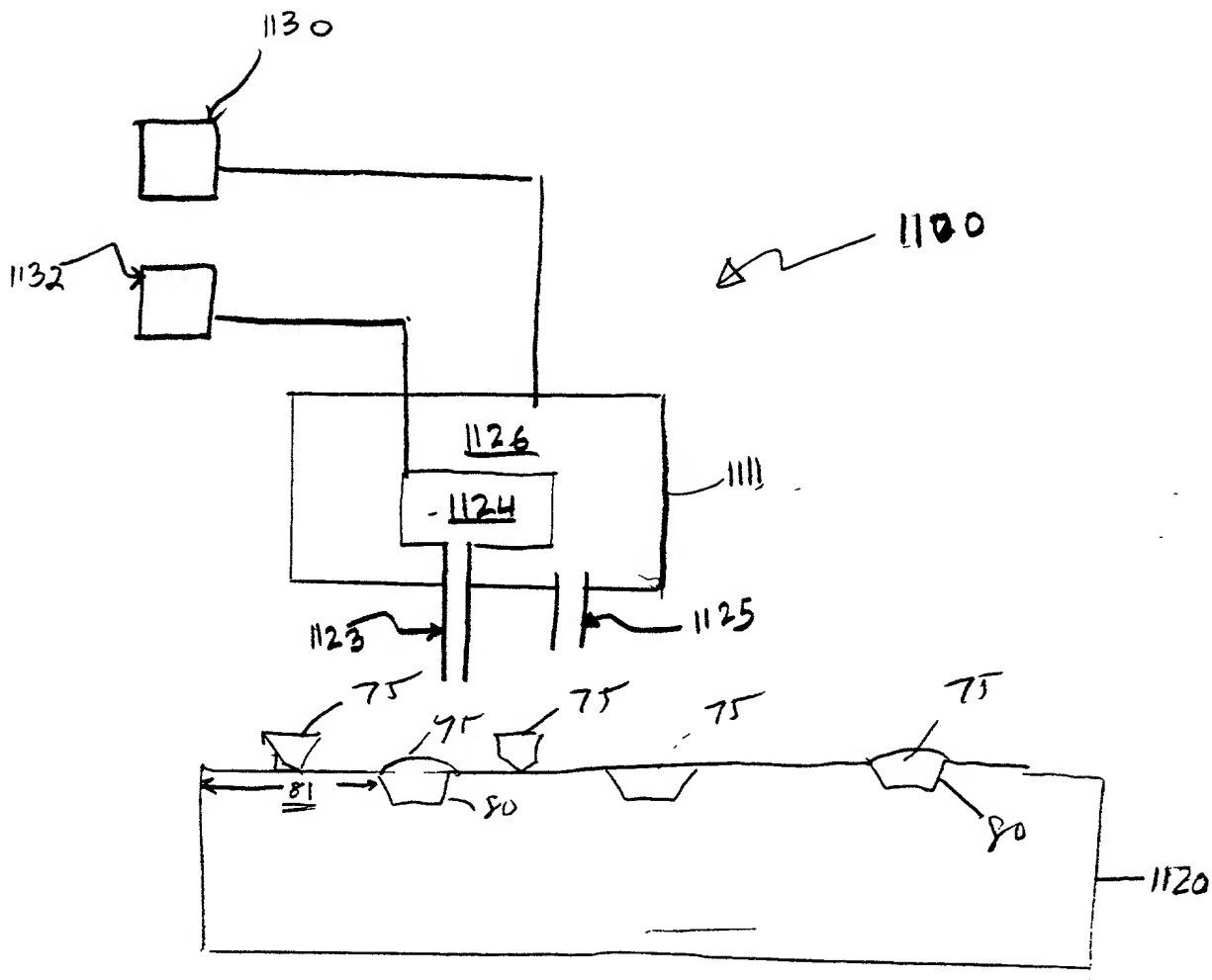


Fig. 11

A compression device coupling to a first tube compresses a fluid in the first tube causing the fluid to flow in a pulsating motion in the first tube.

1200

Blocks are added to the first tube through a second tube. .

1210

The fluid and blocks, flow in a pulsating motion, are dispensed over recessed regions in a substrate.

1220

The blocks fill the recessed regions in the substrate.

1230

**Fig. 12**

Moving a slurry having blocks from a first process chamber  
to a second process chamber without using valves

1300



The fluid continues to move through process chambers  $P_x$   
through  $P_{x+1}$ .

1320

**Fig. 13**

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A dispensing device dispenses a slurry having blocks over a substrate having receptor sites to receive the blocks.

1400

A pulsating device pulsates the slurry while blocks are being dispensed.

1410

Blocks are removed off the substrate by a clearing device which is coupled to at least one vacuum applying pressure to a nozzle head within the clearing device sucking excess blocks off the substrate.

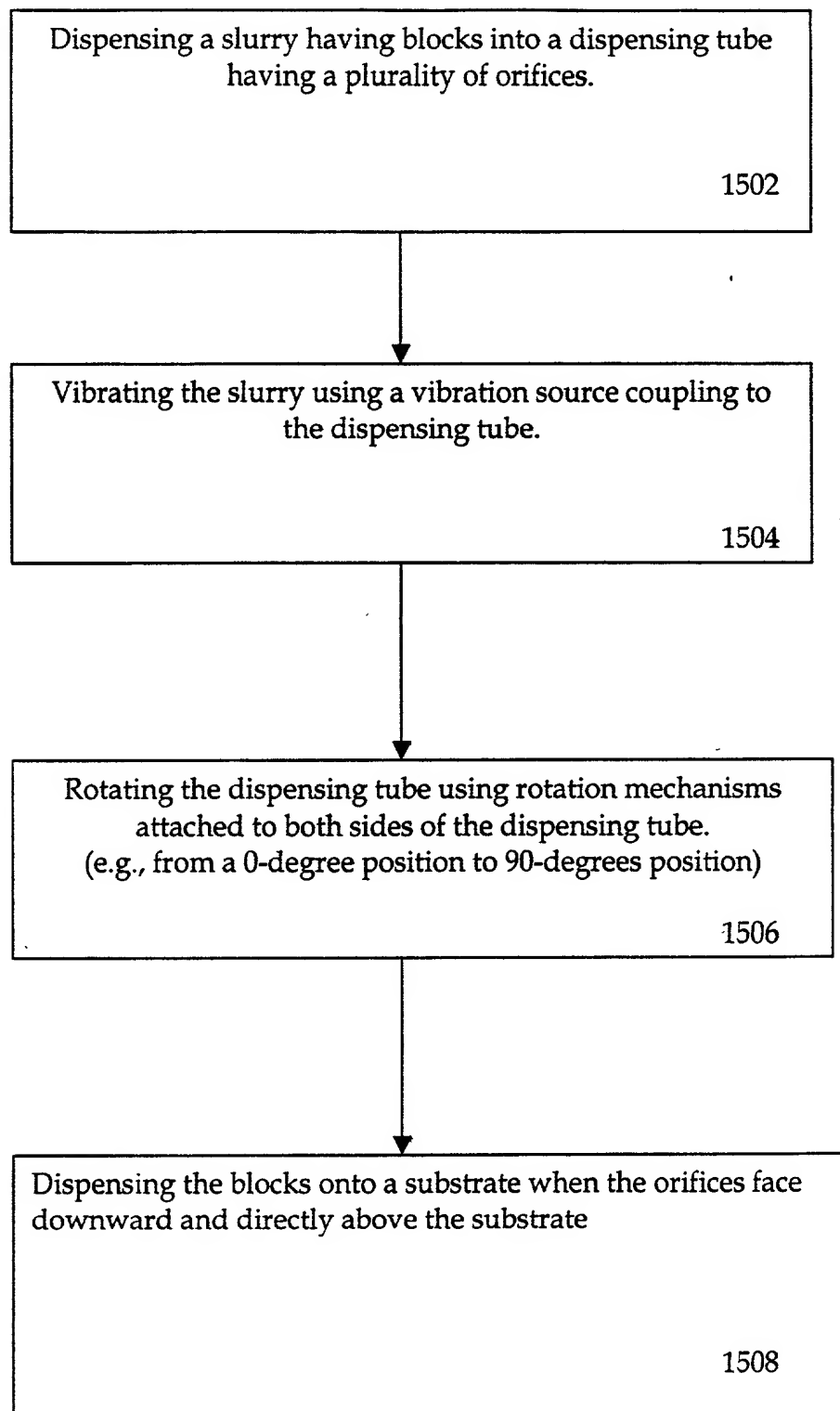
1420

Excess blocks are removed to a container.

1430

**Fig. 14**

1500



**Fig. 15**